APPENDIX C:

HYDROLOGICAL DATA

TABLE C-1 Streams and Rivers Crossed by the Modified Consolidated Corridors, Consolidated Corridors, and Previously Permitted Alternative Routes

Water Body[a]	Alternative Route[b]			State Water Quality Classification[c]	1982 Maine Rivers Study Classification[d]
	MCCR	CCR	PPR		
Tributary to Felts Brook	X	X	X	B	–[e]
Tributary to Felts Brook	X	X	X	B	–
Felts Brook	X	X	X	B	–
Tributary to Felts Brook	X	X	X	B	–
Eaton Brook	X	X	X	B	–
Tributary to Eaton Brook	X	X	X	B	–
Meadow Brook	X	X	X	B	–
Blackman Stream	X	X	X	B	–
Oliver Brook	–	X	–	A	–
Boynton Brook	X	X	X	A	–
Great Works Stream	X	X	X	A	–
Tributary to Otter Stream	–	X	–	B	–
Baker Brook	X	X	X	AA	–
Little Birch Stream	X	X	–	AA	–
Birch Stream	X	X	–	AA	–
Johnson Brook	–	X	–	AA	–
Johnson Brook	–	X	–	AA	–
Tributary to Little Birch Stream	X	–	X	AA	–
Tributary to Little Birch Stream	–	–	X	AA	–
Titcomb Brook	X	–	X	AA	–
Tributary to Birch Stream	X	–	X	AA	–
Tributary to Birch Stream	X	–	X	AA	–
Tributary to Birch Stream	–	–	X	AA	–
Tributary to Birch Stream	–	–	X	AA	–
Tributary to Birch Stream	–	–	X	AA	–
Sunkhaze Stream	X	X	X	AA	C
Tributary to Sunkhaze Stream	X	–	X	AA	–
Wiley Brook	X	X	X	AA	–
Tributary to Wiley Brook	–	–	X	AA	–
Tributary to Wiley Brook	–	–	X	AA	–
Tributary to Indian Brook	X	X	X	AA	–
Tributary to Dead Stream	–	–	X	A	–
Dead Stream	X	X	X	A	–
Hinkley Brook	X	X	X	A	–
Main Stream	X	X	X	A	–
Tributary to Alligator Stream	–	X	X	A	–
Alligator Stream	X	X	X	A	–
Tributary to Alligator Stream	–	–	X	A	–
Alligator Stream	–	–	X	A	–
Tributary to West Branch Narraguagus River	X	X	X	A	–
Tributary to West Branch Narraguagus River	X	X	X	A	–
Tributary to West Branch Narraguagus River	X	X	X	A	–
Tributary to Narraguagus River	X	X	X	A	–

TABLE C-1 (Cont.)

Water Body[a]	Alternative Route[b] MCCR	CCR	PPR	State Water Quality Classification[c]	1982 Maine Rivers Study Classification[d]
Narraguagus River	X	X	X	AA	A
Allen Brook	X	X	–	A	–
Tributary to Narraguagus River	X	X	–	A	–
Thompson Brook	X	X	–	A	–
Tributary to Thompson Brook	X	X	X	A	–
Tributary to Campbell Lake	–	–	X	A	–
Tributary to Burnt Land Lake	–	–	X	A	–
Tributary to Lower Sabao Lake	X	X	X	A	–
Tributary to Lower Sabao Lake	X	X	–	A	–
Connector between Lower Sabao Lake and Burnt Land Lake	X	X	–	A	–
Tributary to Lower Sabao Lake	X	X	–	A	–
Tributary to Lower Sabao Lake	X	X	–	A	–
Tributary to Fifth Machias Lake	X	X	X	A	–
Lake Brook	X	X	–	A	–
Tributary to Fifth Machias Lake	X	X	X	A	–
Tributary to Fifth Machias Lake	X	X	–	A	–
Tributary to Fletcher Brook	X	X	–	A	–
Fletcher Brook	–	–	X	AA	–
Machias River	X	X	X	AA	A
Tributary to First Machias Lake	X	X	–	A	–
Lanpher Brook	X	X	X	A	–
Tributary to Little Musquash Stream	X	X	X	A	–
Tributary to Little Musquash Stream	X	X	X	A	–
Tributary to Little Musquash Stream	X	X	X	A	–
Big Wallamatogue Stream	X	X	X	A	–
Little Wallamatogue Stream	X	X	X	A	–
Clifford Stream	X	X	X	A	–
Scott Brook	X	X	X	A	–
Tributary to Scott Brook	–	–	X	A	–
Tributary to Huntley Brook	–	–	X	A	–
Huntley Brook	X	X	X	A	–
Tributary to Huntley Brook	X	X	X	A	–
Joe Brook	X	X	X	A	–
Tributary to Joe Brook	X	X	X	A	–
Tributary to Allen Stream	–	–	X	A	–
Allen Stream	X	X	–	A	–
Lewys Brook	X	X	X	A	–
Rocky Brook	X	X	X	A	–
Dog Brook	X	X	X	A	–
Tributary to Dog Brook	X	X	X	A	–
Sprague Meadow Brook	X	X	X	A	–
St. Croix River above Woodland Flowage	X	X	X	C	A

Footnotes continued on next page.

TABLE C-1 (Cont.)

[a] Streams and rivers are generally listed in the order they would be crossed from the Orrington Substation to the international border.

[b] CCR = Consolidated Corridors Route, MCCR = Modified Consolidated Corridors Route, PPR = Previously Permitted Route.

[c] The state water quality classifications are defined in Table C-3.

[d] The 1982 Maine Rivers Study classifications are defined in Table C-4.

[e] A dash indicates not classified (under the 1982 Maine Rivers Study column) or not crossed (under the alternative route columns).

Sources: BHE (2004); DeLorme (2004).

TABLE C-2 Streams and Rivers Crossed by the MEPCO South Alternative Route

Water Body[a]	State Water Quality Classification[b]	1982 Maine Rivers Study Classification[c]
Tributary to Felts Brook	B	–[d]
Tributary to Felts Brook	B	–
Felts Brook	B	–
Tributary to Felts Brook	B	–
Eaton Brook	B	–
Tributary to Eaton Brook	B	–
Meadow Brook	B	–
Blackman Stream	B	–
Oliver Brook	A	–
Boynton Brook	A	–
Great Works Stream	A	–
Otter Stream	B	–
Otter Stream	B	–
Otter Stream	B	–
Sunkhaze Stream	AA	C
Buzzy Brook	AA	–
Wiley Brook	AA	–
Tributary to Stevens Brook	B	–
Olamon Stream	B	–
Passadumkeag River	AA	C
Tributary to Barnes Brook	B	–
Penobscot River	B	C
Mattamiscontis Stream	A	–
Tributary to Penobscot River	B	–
Medunkeunk Stream	A	–
Tributary to Penobscot River	B	–
Penobscot River	B	C
Salmon Stream	B	–
Mattakeunk Stream	A	B
Gott Brook (Holt Pond)	A	B
Wrights Mill Stream	A	–
Clark Brook	A	–
Tributary to Bog Brook	A	–
Getchell Brook	A	–
Lindsey Brook	A	–
Tributary to Lindsey Brook	A	–
Tributary to Baskahegan Stream	A	–
Tributary to Baskahegan Stream	A	–
Tributary to Baskahegan Stream	A	–
Tributary to Baskahegan Stream	A	–
Alder Brook	A	–
Flood Brook	A	–
Tributary to Flood Brook	A	–
East Branch Big Musquash Stream	A	–
Deadman Stream	A	–

TABLE C-2 (Cont.)

Water Body[a]	State Water Quality Classification[b]	1982 Maine Rivers Study Classification[c]
Tributary to Fifth Machias Lake	A	–
Lake Brook	A	–
Hill Brook	A	–
Hill Brook	A	–
Hill Brook	A	–
Hill Brook	A	–
Tributary to Lindsey Brook	A	–
Tributary to Jim Brown Brook	A	–
Tributary to Jim Brown Brook	A	–
Tributary to Tomah Stream	A	–
Tomah Stream	AA	D
Tributary to Tomah Stream	A	–
Tributary to Tomah Stream	A	–
Kennebec Brook	A	–
Grandfalls Flowage	A	–
Grandfalls Flowage	A	–
Tributary to Grandfalls Flowage	A	–
Tributary to Grandfalls Flowage	A	–
Sprague Meadow Brook	A	–
Sprague Meadow Brook	A	–
St. Croix River above Woodland Flowage	C	A

[a] Streams and rivers are listed in the order they would be crossed from the Orrington Substation to the international border.

[b] The state water quality classifications are defined in Table C-3.

[c] The 1982 Maine Rivers Study classifications are defined in Table C-4.

[d] A dash indicates not classified (under the 1982 Maine Rivers Study column).

Source: BHE (2004).

TABLE C-3 State of Maine Water Quality Classification for Streams and Rivers

Classification	Description
AA	Class AA is the highest classification for rivers and streams and applies to waters that are outstanding natural resources and that should be preserved because of their ecological, social, scenic, or recreational importance. Class AA waters must be of such quality that they are suitable for the designated uses of drinking water after disinfection, fishing, agriculture, recreation in and on the water, navigation, and as habitat for fish and other aquatic life. The habitat must be characterized as free flowing and natural.
A	Class A is the second-highest classification for rivers and streams. Class A waters must be of such quality that they are suitable for the designated uses of drinking water after disinfection; fishing; agriculture; recreation in and on the water; industrial process and cooling water supply; hydroelectric power generation, except as prohibited under Title 12, Section 403; navigation; and as habitat for fish and other aquatic life. The habitat must be characterized as natural.
B	Class B is the third-highest classification for rivers and streams. Class B waters must be of such quality that they are suitable for the designated uses of drinking water after treatment; fishing; agriculture; recreation in and on the water; industrial process and cooling water supply; hydroelectric power generation, except as prohibited under Title 12, Section 403; navigation; and as habitat for fish and other aquatic life. The habitat must be characterized as unimpaired.
C	Class C is the fourth-highest classification for rivers and streams. Class C waters must be of such quality that they are suitable for the designated uses of drinking water after treatment; fishing; agriculture; recreation in and on the water; industrial process and cooling water supply; hydroelectric power generation, except as prohibited under Title 12, Section 403; navigation; and as habitat for fish and other aquatic life.

Source: MDEP (2004).

TABLE C-4 1982 Maine Rivers Study Classification

Classification	Description
A	Rivers or river segments possessing at least six resource values[a] with regional, Statewide, or greater than Statewide significance in a specific resource category; or rivers or river segments possessing two or more resource values that are recognized to be some of the State's most significant in a given resource category. Included within this class are rivers providing important habitat (defined as self-sustaining, viable runs, or significant fish restoration efforts) for the Atlantic salmon.
B	Rivers or river segments possessing four or five resource values with regional, Statewide, or greater than Statewide significance in a specific resource category; or rivers or river segments possessing one resource value that is recognized to be one of the State's most significant in a given resource category.
C	Rivers or river segments possessing one to three resource values with regional, Statewide, or greater than Statewide significance in a specific resource category.
D	Rivers or river segments possessing one or more resource values with regional significance.

[a] Resource values include geologic/hydrological features, critical ecological resources, scenery, history, degree of river development, fisheries, and recreational boating.

Source: MDOC and NPS (1982).

TABLE C-5 Lakes and Ponds within One Mile of the Northeast Reliability Interconnect Alternative Routes

		Alternative Route[b]			
Lake or Pond	Town/Township[a]	MCCR	CCR	PPR	MSR
Fields Pond	Orrington	X	X	X	X
Otter Chain Ponds	Milford	–[c]	X	–	X
Cambolasse Pond	Lincoln	–	–	–	X
Long Pond/Caribou Pond	Lincoln	–	–	–	X
Mill Pond	Lee	–	–	–	X
Egg Pond	Lee	–	–	–	X
Holt Pond	Springfield	–	–	–	X
Lowell Lake	Carroll PLT	–	–	–	X
Dipper Pond	Carroll PLT	–	–	–	X
Crocker Pond	T32 MD	–	X	X	–
Pickerel Pond	T32 MD	X	X	X	–
Dollar Pond	T32 MD	X	X	–	–
Dud's Pond	Great Pond PLT	X	X	X	–
Alligator Lake	T34 MD	X	X	X	–
Jimmies Pond	T34 MD	X	X	X	–
Upper Allen Pond	T34 MD	X	X	–	–
Middle Allen Pond	T34 MD	X	X	–	–
Lovejoy Pond	T34 MD	X	X	–	–
Bracey Pond	T34 MD	X	X	–	–
Deer Lake	T34 MD	–	–	X	–
Haycock Pond	T34 MD	–	–	X	–
Allen Pond	T35 MD	X	X	–	–
Horseshoe Lake	T35 MD	–	–	X	–
Green Lake	T35 MD	X	X	X	–
Campbell Lake	T35 MD	X	X	X	–
Lower Sabao Lake	T35 MD	X	X	X	–
Burnt Land Lake	T35 MD	X	X	X	–
Fifth Machias Lake	T36 MD BPP	X	X	X	–
Knox Lake	T36 MD BPP	X	X	X	–
First Machias Lake	T37 MD BPP	X	X	X	–
Second Machias Lake	T37 MD BPP	–	–	X	–
Fourth Lake	T37 MD BPP	X	X	X	–
Little Musquash Lake	T37 MD BPP	X	X	X	–
East Musquash Lake	Topsfield	–	–	–	X
Grand Falls Flowage	Fowler	–	–	–	X
Clifford Lake	T27 ED BPP	X	X	X	–
Pocomoonshine Lake	Princeton	X	X	X	–
Woodland Flowage	Baileyville	X	X	X	X

[a] BPP = Bingham's Penobscot Purchase, ED = Eastern Division, MD = Middle Division, PLT = Plantation.

[b] CCR = Consolidated Corridors Route, MCCR = Modified Consolidated Corridors Route, MSR = MEPCO South Route, PPR = Previously Permitted Route.

[c] A dash indicates that the water body is not within 1.0 mi (1.6 km) of that alternative route.

Sources: BHE (2004); DeLorme (2004).

REFERENCES FOR APPENDIX C

BHE (Bangor Hydro–Electric Company), 2004, *Northeast Reliability Interconnect Alternatives Analysis*, Bangor, Maine, Dec.

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